

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 301 AND MITCHELL ROAD IN CHARLES COUNTY. US 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. THE MODIFICATIONS CONSIST OF ADDING SIDE STREET SPLIT PHASE, REPLACE EXISTING SIGNAL HEADS WITH BLACK FACE, AND ADDING SIGNAL INDICATIONS FOR THE MAIN LINE.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL BE CHANGED TO A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH SIDE STREET SPLIT PHASING.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE, HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET WILL BE USED.

PHASE CHART

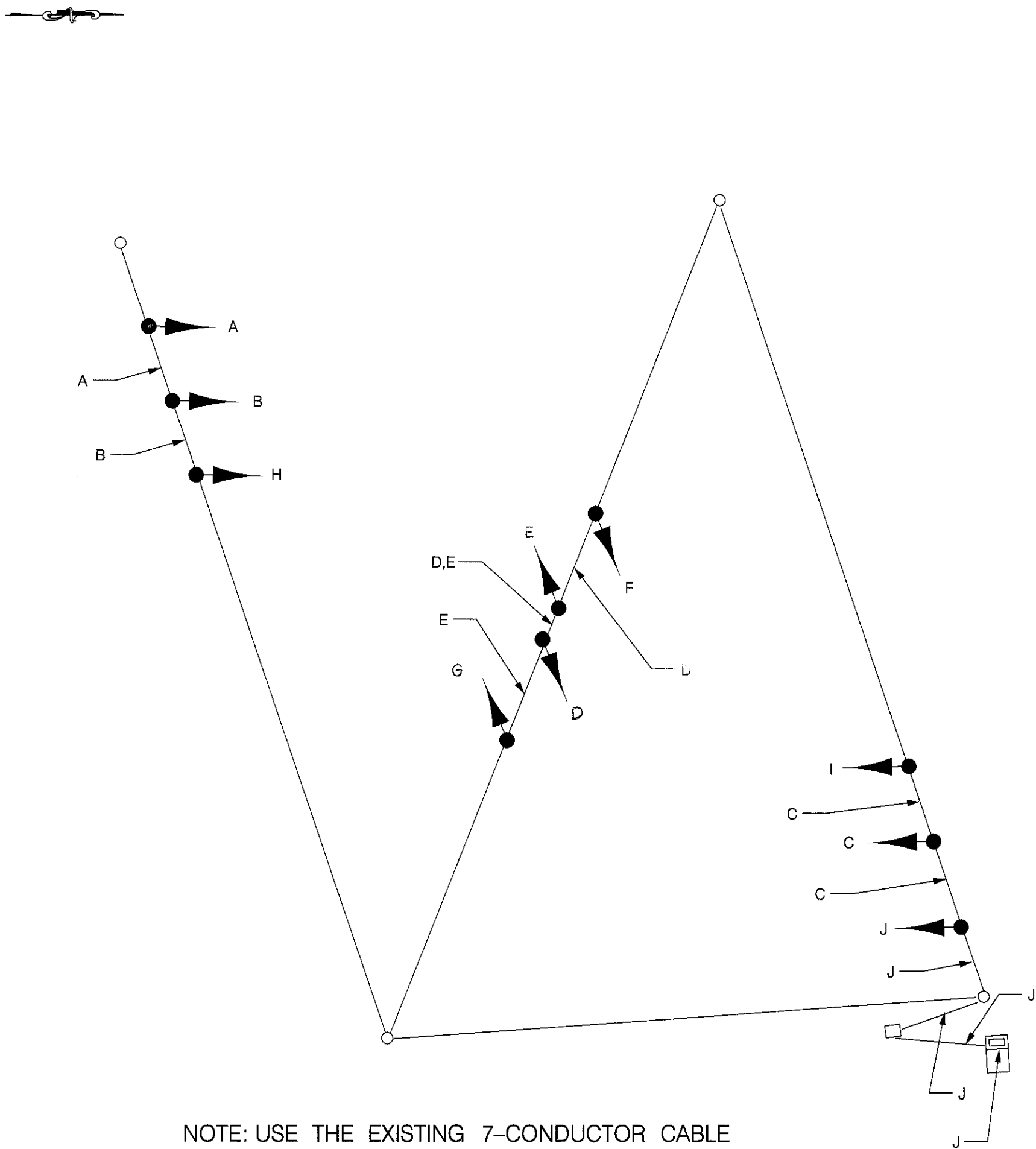
	1	2	3	4	5	6	7	8	9	10	
	(R Y G)	(R Y G)	(R Y G)	(R Y G)	(R Y G)	(R Y G)	(R Y G)	(R Y G)	(R Y G)	(R Y G)	
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	←
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	→
PHASE 3	R	R	R	R	R	R	R	R	G	G	←
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	→
PHASE 4	R	R	R	R	R	R	G	G	R	R	←
4 CHANGE	R	R	R	R	R	R	Y	Y	R	R	→
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	←

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8007	4 EA	ADJUST AND RE-RING EXISTING SPAN WIRE
8013	1 EA	REMOVE AND DISPOSE OF EQUIPMENT
8022	22 SF	RELOCATE EXISTING SIGN
8025	32 LF	FURNISH AND INSTALL 4 IN. X 4 IN. WOOD SIGN SUPPORT
8046	10 SF	INSTALL GROUND MOUNTED SIGN
8056	32 EA	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8061	95 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8062	85 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)

WIRING DIAGRAM



WIRING KEY

- A-E 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F-I EXISTING 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- J 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY MSHA AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9571	10 SF	ALUMINUM SHEET
		2 EACH R4-7 SIGN (24" X 30") GROUND MOUNT

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

Ms. Kim Betty Tran
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1002

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
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MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7688

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

EQUIPMENT LIST "C"

A. EQUIPMENT TO BE REMOVED BY SHA FORCES.

ITEM NO.	QUANTITY	DESCRIPTION
		NONE

SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET

US 301 (CRAIN HWY) AND MITCHELL ROAD

DRAWN BY: M.HOWELL	F.A.P. NO. N/A	TS NO. 2112	SHEET NO. 2 OF 2
CHECKED BY:	S.H.A. NO. AT582185	T.I.M.S. NO. G623	
SCALE: NONE	COUNTY: CHARLES	LOG MILE: ?	

DATE: 9/2004

TRAFFIC **C**ONCEPTS, INC.
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